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IN THE CLAIMS:

This listing of claims will replace all prior versions, and listings, of claims in the application:

(Original) A method of manufacturing a component that will, in use, experience a
thermal load and will be operated at a mean operating temperature, the method comprising:

selecting a material having a coefficient of thermal expansion having a zero-crossing at a first temperature;

manufacturing the component using the selected material at a second temperature,
wherein the first temperature is between the second temperature and the mean operating
temperature, so as to minimize deformation of the component at the mean operating temperature.

- (Original) A method according to claim 1, wherein the first temperature is equal to the average of the second temperature and the mean operating temperature.
- (Original) A method according to claim 1, wherein the integral of the coefficient of thermal expansion of the selected material from the second temperature to the mean operating temperature is substantially zero.
- (Currently Amended) A method according to claim 1, wherein the selected material is a
 material having a low <u>magnitude</u> coefficient of thermal expansion <u>at the mean operating</u>
 temperature.
- (Currently Amended) A method according to claim 1, wherein the selected material is a
 material having a substantially zero coefficient of thermal expansion at the mean operating
 temperature.
- (Original) A method according to claim 5, wherein the selected material is a glass or a glass-ceramic comprising additives to provide the coefficient of thermal expansion.

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- (Original) A method according to claim 1, wherein the second temperature is adjusted to
 enable use of a material having a coefficient of thermal expansion zero-crossing temperature that
 is fixed or of a limited variability.
- 8. (Original) A component for use in a lithographic apparatus, the apparatus being configured to project a patterned beam of radiation onto a target portion of a substrate, wherein the component is made of a material having a coefficient of thermal expansion having a zero-crossing at a first temperature between a second temperature at which the component is manufactured and a mean operating temperature of the component.
- (Original) A component according to claim 8, wherein the first temperature is equal to the average of the second temperature and the mean operating temperature.
- 10. (Original) A component according to claim 8, wherein the integral of the coefficient of thermal expansion of the material from the second temperature to the mean operating temperature is substantially zero.
- 11. (Currently Amended) A component according to claim 8, wherein the material is a material having a low <u>magnitude</u> coefficient of thermal expansion <u>at the mean operating</u> temperature.
- (Currently Amended) A component according to claim 8, wherein the material is a
 material having a substantially zero coefficient of thermal expansion at the mean operating
 temperature.
- 13. (Previously Presented) A component according to claim 8, wherein the component is an optical component in a radiation system, or a projection system, or both the radiation system and the projection system of the lithographic apparatus.

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- 14. (Previously Presented) A component according to claim 13, wherein the optical component is an optical element in the radiation system and/or the projection system that experiences, in use, a highest thermal load.
- (Original) A component according to claim 13, wherein the optical component is a mirror.
- 16. (Original) A component according to claim 15, wherein the mirror comprises a substrate manufactured from a material having a low coefficient of thermal expansion and a multilayer stack.
- 17. (Original) A component according to claim 15, wherein the mirror comprises a substrate manufactured from a material having a substantially zero coefficient of thermal expansion and a multilayer stack.
- 18. (Previously Presented) A lithographic apparatus, comprising:
 - a radiation system configured to provide a beam of radiation;
- a support configured to support a patterning device, the patterning device configured to pattern the beam according to a desired pattern;
 - a substrate table configured to hold a substrate;
- a projection system configured to project the patterned beam of radiation onto a target portion of the substrate, wherein at least one component in the apparatus that in use experiences a thermal load is made of a low coefficient of thermal expansion material having a coefficient of thermal expansion having a zero-crossing at a temperature substantially midway between a manufacturing temperature and a mean operating temperature of the at least one component.
- 19. (Previously Presented) A device manufacturing method, comprising: providing a beam of radiation using a radiation system; patterning the beam of radiation with a pattern in its cross-section; projecting the patterned beam of radiation onto a target portion of a layer of radiation-sensitive material at least partially covering a substrate using a projection system, wherein at

least one component in the radiation system, or the projection system, or both the radiation system and the projection system, experiencing a thermal load has a mean operating temperature and is made of a low coefficient of thermal expansion material such that a coefficient of thermal expansion zero-crossing temperature of the material is substantially midway between a manufacturing temperature of the at least one component and the mean operating temperature.

- (Previously Presented) A component according to claim 8, wherein the material is a glass
 or a glass-ceramic comprising additives to provide the coefficient of thermal expansion.
- 21. (Previously Presented) A method according to claim 1, wherein the selected material is a material having a coefficient of thermal expansion having a magnitude of less than or equal to $0 \pm 0.10 \times 10^{4}$ /K (0° 50°C).
- 22. (Previously Presented) A method according to claim 1, wherein the selected material is a material having a substantially linear coefficient of thermal expansion between the second temperature and the mean operating temperature.
- 23. (Previously Presented) A component according to claim 8, wherein the material is a material having a coefficient of thermal expansion having a magnitude of less than or equal to $0 \pm 0.10 \times 10^6 / \text{K}$ (0° 50°C).
- 24. (Previously Presented) A component according to claim 8, wherein the material is a material having a substantially linear coefficient of thermal expansion between the second temperature and the mean operating temperature.
- 25. (New) A method according to claim 1, wherein the second temperature is a temperature of a final polishing and figure-checking step of the component.
- 26. (New) A component according to claim 8, wherein the second temperature is a temperature of a final polishing and figure-checking step of the component.